

Tempe Fire Department Policies and Procedures

SCBA Flow Testing and Overhaul

607.01

9-28-06

Purpose

To establish manufacturer recommended flow testing and overhaul requirements for the MSA Firehawk 4545. Fit Testing Protocol is to gain knowledge on how to don the Ultra Elite Mask properly.

Policy

A. Flow Test

1. All SCBA Regulators and audi-larm must be flow tested bi-annually on the BIOSYSTEMS Posi 3 CHEK, by a certified repair technician.
2. Per MSA the following test will be preformed on the SCBA.
 - a. Static face piece pressure.
 - b. Static first stage pressure
 - c. First stage pressure change
 - d. Alarm accuracy
 - e. Redundant alarm
 - f. Bypass test
 - g. High pressure leakage
3. All records of each SCBA will be kept on file in Support Services.

B. Overhaul

1. The recommended overhaul schedule for self-contained breathing apparatus from MSA is based on apparatus usage.
2. The Tempe Fire Department on actual level of usage will overhaul the complete unit every 10 years. The first stage regulator, second stage regulator and the pack alarm will be rebuilt.

C. Hydrostatic Test SCBA Bottle

1. All Stealth Carbon Fiber 4545 psig cylinders need to be hydro tested every five years.
2. All cylinder valves need to be rebuilt after each hydro.

D. Fit Testing Protocol

1. The most important part of this test is to gain knowledge of how to don the SCBA mask.
2. The following information is required and recorded prior to the fit test:
Employee ID Number, Last Name, First Name, Department, Company Location
3. Eight tests are conducted to determine the fit factor, each lasting (60) seconds
 - a. Normal Breathing
 - b. Deep Breathing
 - c. Head Side to Side
 - d. Head Up and Down
 - e. Talking
 - f. Grimace
 - g. Bend and Touch Toes
 - h. Normal Breathing

4. Each factor must be greater than 1000. The average of the eight factors determine the overall fit factor.
5. At the end of the test the member will be required to sign the report copy. The copy will remain on file at Environmental Safety.